

"APPROVED FOR RELEASE: Tuesday, September 17, 2002

CIA-RDP86-00513R000

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CIA-RDP86-00513R0005

GLADKOV, D., kand.tekhn.nauk, inzh.-mayor

Rocket against an airplane (as revealed by foreign press data).
Starsh.-serzh. no.5:24 My '62. (MIRA 15:6)
(United States---Rockets (Ordnance))

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CIA-RDP86-00513R0005

GLADKOV, D., inzhener-maschinist, 1946-1950, pilot

What affects the precision of rocket guidance? Av. Voen. Akad. 46
no. 17, 1981, p. 2.

(Projectiles, aerial)

S7624/61700070-1/010/000
E110/E755

16,8000

AUTHOR Gladkov, D.I. (Moscow)

TITLE Method of determining the differential equation of a system from a given weighting function of a system

PERIODICAL Akademiya nauk SSSR, Izvestiya. Otdelenie
tekhnicheskikh nauk. Energetika i avtomatyka
no. 6 1961 74 - 76

TEXT A dynamic system may be described fully by a differential equation, a transfer function or a weighting function. In order to synthesize the system it is necessary to derive from the weighting function the differential equation of the system. The note indicates the procedure for carrying this out by repeated division and differentiation. Two numerical examples are given.

There are 5 Soviet-bloc references.

SUBMITTED June 3 1960

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CIA-RDP86-00513R0005

20747

S/103/61/C22/003/002/008
B116/3209

16,9500 (1031,1121,1132,1013)

AUTHOR: Gladkov, D. .. (Moscow)

TITLE: The assembly of linear automatic control systems

PERIODICAL: Avtomatika i telemekhanika, v. 22, no. 3, 1961, 506-513

TEXT: The present paper describes a study concerning the assembly of linear dynamic systems with constant and variable parameters. Structure and correction circuit parameters are determined and a technique of exactly mounting the integrating unit is given. The following problem is set: given - a linear dynamic system (Fig. 1a); required - structure and parameters of the correction circuits which render the dynamic properties of the given system equal to those of a certain optimum system. The dynamic properties of an optimum system may easily be expressed by weight functions. For linear systems expressed by differential equations

these functions are given by $g_0(t, \tau) = \sum_{j=1}^m f_j(t) q_j(\tau)$ (1). The correction circuits (Fig. 1b) are introduced and the following is written:

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$g_1(t, \tau) = \int_{\tau}^t g_{11}(\eta, \tau) g_{12}(t, \eta) d\eta$. The differential equations

expressing the operation of the system by means of the weight function

$g_{11}(t, \tau)$ and $g_{12}(t, \tau)$ are written in the form of $\sum_{p=0}^m a_p p^{\rho} x_{\text{output}} =$
 $= x_{\text{input}}$ (2), $\sum_{\mu=0}^k b_{\mu} p^{\mu} x_{\text{output}} = x_{\text{input}}$ (3), $p = d/dt$; ρ and μ

denote the order of the derivative; k and m determine the order of the differential equations. a_p and b_{μ} are time functions in the general case.

The weight function $g_k(t, \tau)$ of the correction circuits is determined.

$g_k^*(t, \tau)$ denotes the weight function of the direct circuit in the structural scheme of the given automatic control system with the correction circuits introduced; $g_{k1}(t, \tau)$ - the weight function of series connection consisting of correction circuits and the dynamic system with the weight

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B116/E202

The assembly of linear automatic ...

function $\xi_{12}(t, \tau)$. In the determination of $\xi_k^*(t, \tau)$, a Volterra type integral equation of the second kind is solved by successive approximation,

resulting in the equation $\xi_k^*(t, \tau) = \sum_{i=1}^{m_1} c_i(t) d_i(\tau) \quad (5)$. $\xi_{k1}(t, \tau)$

is determined by using the method of reciprocal terms as established by

S. V. Mal'chikov: $\xi_{k1}(t, \tau) = \int_{\tau}^t \overline{\xi_{11}}(\eta, \tau) \xi_k^*(t, \eta) d\eta \quad (6)$. In the

same way, the weight function of the correction circuits is determined from the known $\xi_{k1}(t, \tau)$ and $\overline{\xi_{12}}(t, \tau)$. $\overline{\xi_{11}}(t, \tau)$ and $\overline{\xi_{12}}(t, \tau)$ are the weight functions of systems that are reciprocal with respect to the dynamic systems expressed by Eqs. (2) and (3). With the assumption that in Eqs. (2) and (3), $x_{\text{output}} = \xi(t - \tau)$, one obtains

$$\overline{\xi_{11}}(t, \tau) = \sum_{\zeta=0}^{m_1} a_\zeta(t) \xi^\zeta(t - \tau) \quad (8), \quad \overline{\xi_{12}}(t, \tau) =$$

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The assembly of linear automatic ...

$= \sum_{\mu=0}^k b_{\mu}(t) \delta^{(\mu)}(t - \tau)$ (9). On the basis of Eqs. (5), (6), (e),

and (9) the author obtains the equation for the weight function of the correction circuits:

$$\begin{aligned} g_k(t, \tau) = & \sum_{i=1}^n c_{oi}(t) d_{oi}(\tau) + \sum_{\rho=1}^m \sum_{i=1}^n \int_{\tau}^t \delta^{(\rho)}(\eta - \tau) a_{\rho}(\eta) c_{oi}(t) d_i(\eta) d\eta + \\ & + \sum_{i=1}^n \sum_{\mu=1}^k \int_{\tau}^t c_i(\xi) d_{oi}(\tau) b_{\mu}(t) \delta^{(\mu)}(t - \xi) d\xi + \\ & + \sum_{\rho=1}^m \sum_{i=1}^n \sum_{\mu=1}^k \int_{\tau}^t \int_{\xi}^{\xi} \delta^{(\rho)}(\eta - \tau) a_{\rho}(\eta) c_i(\xi) d_i(\eta) b_{\mu}(t) \delta^{(\mu)}(t - \xi) d\eta d\xi. \quad (11) \quad (11), \end{aligned}$$

where $d_{oi}(\tau) = a_o(\tau) d_i(\tau)$ and $c_{oi}(t) = b_o(t) c_i(t)$. Eq. (11) shows that the correction circuit is a parallel connection of dynamic systems with weight functions of the following type:

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$$\begin{aligned}
 g_{01}(t, \tau) &= c_{01}(t) d_{01}(\tau), \\
 g_{02}(t, \tau) &= \int_{\tau}^t \delta^{(p)}(\eta - \tau) a_p(\eta) c_{01}(t) d_1(\eta) d\eta, \\
 g_{03}(t, \tau) &= \int_{\tau}^t c_t(\xi) d_{01}(\tau) b_p(t) \delta^{(p)}(t - \xi) d\xi, \\
 g_{04}(t, \tau) &= \int_{\tau}^t \int_{\tau}^{\xi} \delta^{(p)}(\eta - \tau) a_p(\eta) c_t(\xi) d_t(\eta) b_p(t) \delta^{(p)}(t - \xi) d\eta d\xi.
 \end{aligned}
 \quad \left. \right\} \quad \langle \text{Fig. } a \rangle$$

(a).

The author shows, with the aid of Fig. 2, how to realize systems with such a kind of weight functions: The assembly diagram of a system with $g_{01}(t, \tau)$ is shown in Fig. 2a, with $g_{04}(t, \tau)$ in Fig. 2b, with $g_{02}(t, \tau)$ in Fig. 2c, and with $g_{03}(t, \tau)$ in Fig. 2d. In this manner, the correction circuit adapting the dynamic properties of the given system to an optimum, consists in a parallel connection of circuits with differentiating,

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E116/3209

The assembly of linear automatic ...

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integrating, and amplifier units with variable amplification factors. Fig. 3 shows another way of obtaining an assembly scheme for the correction circuit, taking Eqs. (5), (8), and (9) into account. The integrating unit is very difficult to verify. The author presents a method in which the integrating unit is replaced by an inertial unit with variable parameters. The inertial unit with the time constant T has the weight

function $g(t, \tau) = \frac{1}{T} e^{-\frac{t}{T}} e^{\frac{\tau}{T}}$. The assembly diagram of such a unit is shown in Fig. 4a. The integration unit illustrated in Fig. 4b is obtained when amplifier units with variable coefficients $T e^{-t/T}$ and $e^{t/T}$ are connected to input and output, respectively, of this unit. The assembly scheme of a system with the weight function $g_{oi}(t, \tau)$ is shown in Fig. 4c,

where $d_i(t) = T_i d_{oi}(t) e^{-t/T_i}$, $f_i(t) = c_{oi}(t) e^{t/T_i}$ (12). The way of verifying such a system is given in Fig. 5. $R(t)$ is determined

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from formula

$$R(t) = \frac{1}{d_{01}(t)} e^{\int_0^t c_{01}(\tau) d_{01}(\tau) d\tau} \quad (13)$$

(13)

and $C(t)$ from formula

$$C(t) = \frac{1}{c_{01}(t)} e^{-\int_0^t c_{01}(\tau) d_{01}(\tau) d\tau} \quad (14)$$

(14).

There are 6 figures and 3 Soviet-bloc references.

IX

SUMMITED: April 20, 1960

Card 7/12
7

16 9000 4102, 4902
S/024/62/000/001/010/015
E140/E435

(16 9000 4102, 4902)

AUTHORS: Gladkov, D.I., Mal'chikov, S.V. (Moscow)

TITLE: Method for the synthesis of nonstationary automatic control systems for given optimal weighting function

PERIODICAL: Akademiya nauk SSSR. Izvestiya. Otdeleniye tekhnicheskikh nauk. Energetika i avtomatika.
no.1, 1962, 166-169

TEXT: The method proposed here avoids the necessity of solving Volterra integral equations of the second kind, if the input signal can be represented in the form

$$z(t) = \sum_{i=1}^n u_i f_i(t) + x(t) \quad (1)$$

and the desired output signal in the form

$$y(s) = \sum_{i=1}^n u_i \varphi_i(s) \quad (2)$$

Card 1/3

Method for the synthesis ...

S/024/62/000/001/010/013
E140/E435

where $X(t)$ is white noise, U_i are random quantities and $f_i(t)$, $\varphi_i(t)$ are nonrandom functions. If the inverse network (Ref.5: S.V.Mal'chikov, Avtomatika i telemekhanika, v.XX, no.12, 1959) be denoted by a superscript minus sign, the essence of the method is given in Fig.1. Let 1, 2, 3, 4 in Fig.1a be known networks in an existing control, where k_1 , k_2 are corrective networks to be found. Then it can be shown that the system as corrected will be given by Fig.1b. It should be noted that the sign of the feedback in the corrective network is opposite to that of the principal loop of the original system (Fig.1a). While this method gives a solution always in principle, the required inverse networks may be difficult to realize due to the presence of high-order derivatives. The approximate realization of such cases is not considered. The article concludes with an example. There are 6 figures.

SUBMITTED: June 3, 1960

Card 2/3

ACCESSION NR AM021936

BOOK EXPLOITATION

S/

Pugachev, V. S.; Kazakov, I. Ye.; Gladkov, D. I.; Yevlanov, L. G.;
Mal'chikov, S. V.; Mishakov, A. F.; Sedov, V. D.; Sokolov, V. I.

Principles of automatic control (Osnovy avtomaticheskogo upravleniya), Moscow,
Fizmatgiz, 1963, 646 p. illus., bibliog., index. 15,000 copies printed.

TOPIC TAGS: automation, automatic control, linear control system, nonlinear
control system

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SUB CODE: CP

SUBMITTED: 26Jul63

NR REF Sov:061

OTHER: OLL

DATE ACQ: 27Dec63

Card 2/2

GLADKOV, E.S.

Petroleum workers at the Exhibition of Achievements of the
Soviet National Economy in the Tatar A.S.S.R. Neftianik 7
no.12:13 D '62.
(MIRA 16:6)

1. Starshiy inzh. po tekhnicheskoy informatsii Gosudarstvennogo
tresta po nefteburovym rabotam Tatarskoy ASSR,
(Kazan—Petroleum production)
(Kazan—Exhibitions)

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GLADKOV, G.

SA 66/491106

USSR/Radio - Thyratrons
Rectifiers Aug 49

"Use of Thyratrons," G. Gladkov, 2½ pp

"Radio" No 8

Previous article in "Radio," No 7 discussed operating principles of thyratrons. Discusses their applications herein. Gives detailed technical description and waveforms for controlled rectifiers, saw-tooth generators, and inertialess relays.

66/491106

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GLADKOV, G.A. (Kishinov)

Conditioned reflex method in successful therapy of post-
encephalitic Gunn's syndrome. Zhur. nevr. i psikh. 63 no.9:
1329-1332 '63. (MIRA 17:8)

NAME:

SOV 89-5-5-15

Lebedev, A. P., Afrikantov, I. I., Brandaus, A. I., Gladkov,
T. A., Gerasim, B. Ya., Neganov, V. I., Khiopkin, N. S.

TITLE:

"The Nuclear Ice-Breaker "Lenin" (Atomnyy ledokol "Lenin")

DATE, PAGE:

COMMUNIST ENERGYA, 1958, Vol. 4, Nr 2, pp. 25-276 (USSR)

ABSTRACT:

"The ice-breaker "Lenin" was put on the stocks in a Leningrad shipbuilding yard on August 25, 1956. The vessel was launched on December 5, 1957. At present she is being completed in a floating dock. The following data were published:

Operation period without refuelling	1 year
Maximum length	114 m
Width	17.0 m
Shaft output	44 000 Hp
Propulsion	16 000 "
Speed in deep and calm water and loaded to full capacity	18 km/h

Diagram:

Number of propellers

Number of revolutions of screws at maximum speed:

Card # 3

The Nuclear reactor "Ivanin"

SOV 89-3-5 15

Central screw	184 revs.p.m.
Lateral screws	205 revs.p.m.
Average height of side of ship	16,1 m
Draught	2,1 m
Total weight of reactor including shield	4,1 t
Specific power	68, H.
Weight of shield	450 t
Total weight of all other mechanical parts of equipment	2,7 t
Total quantity of steam generated	360 t/h
Temperature of steam	360 °C
Steam pressure	1,8 atm
Steam is supplied by means turbogenerator	204 t/h
 Steam supplied auxiliary boiler	
Capacity of auxiliary electrical plant	1,5 M.W.
Number of reactors	0,5 t
Diameter of active zone	1 m
Diameter of inert zone	1,6 m
Degree of enrichment	20% U ²³⁵
Power of chain U ²³⁵	100 k
Static forward thrust of screws	330 tons

SECRET 3

SOV/89-5-3-5/15

The Nuclear Ice-Breaker "Lenin"

Canning material

Thermal power of the reactor

zirconium or
stainless steel

Maximum thermal load

90 MW
 10^6 kcal/m²/h

Inlet temperature of water

248° C

Outlet temperature of water

325° C

Reactor boiler

diameter 2 m,
height 5m.

A number of circuit diagrams and photographs of the entire plant is given. Safety measures are such that the vessel cannot sink even in the case of major damage. The nuclear plant is protected in such a manner that in continuously manned compartments the radiation level does not exceed 0.1 - 0.3 of the maximum tolerable dose for an 8 - hour working day. All quantities of waste water drained off into the sea are below the permitted concentration. Cisterns with a holding capacity of 3,10, and 25 m³ are provided for the active water. There are 15 figures.

Card 3/3

GLADKOV, G.A.

PLEASE I BOOK EXPLOITATION NOV/2013

PUSH / BORN HUMANITY / 11

21(1)

Soldatenko, N. A., A. E. Krashin, A. N. Kuznetsov, and V. N. Ushakov. "Experience of Operating the First Klyuchevskaya Nuclear Power Plant." In: *Proceedings of the All-Union Conference on the Design and the Plant's Work Under Severe Conditions*, 15 (Report No. 2183).
Dolzhikov, N. A., A. E. Krashin, P. F. Alenchenko, A. M. Gritsarenko, Yu. V. Kostylev, N. N. Puchkarev, V. V. Florintsev, Yu. V. Krasnianskiy, and V. N. Ushakov. "A Reactor Block of the Klyuchevskaya Nuclear Power Plant." In: *Proceedings of the All-Union Conference on the Design and the Plant's Work Under Severe Conditions*, 15 (Report No. 2139).

Aleksandrov, A.P., V.I. Arshinov, A.M. Brundzusov, A.P. Prokof'yev,
G.V. Ulyanov, N.Ye. Ustinov, Ye.N. Yudin, and N.S. Efimov. In:
The Atomic Industry. Leningrad [Report No. 2140].

Aleksandrov, A.P., V. and P.G. Shirokov. Radiation Safety System of
the Atomic Reactor. Report No. 2181.

(Report No. 2181) Water-water Power Reactors (WWR) in the USSR
(Report No. 2188)

Aleksandrov, A.P., A.M. Glukhov, V.V. Soschenko, A.I. Kovalev,
A. B. Kostomarov, and G.I. Kozachenko. Heat-producing Elements for Water-water
Reactors of Atomic Power Plants (Report No. 2190).

Aleksandrov, A.P. and V.I. Subbotin. Cooling Water-water Reactor
(Report No. 2171)

Aleksandrov, A.P. and V.I. Subbotin. Heat Transfer in Fast Trans-
portation. V.S. and I.V. Irtegov. A Study of Reactor Heat Trans-
fer in Water-producing Elements of Nuclear Reactors (Report
No. 2172)

Aleksandrov, A.P., V.I. Subbotin, and P.A. Nekrasov. High-speed
Flow-and-Transfer Coefficient in the Pipe
(Report No. 2175)

Aleksandrov, A.P., V.I. Subbotin, V.M. Portokalsky, and F. L.
Menshikov. Heat Exchange During the Flow of Liquid Metal in the
Pipes (Report No. 2210)

Aleksandrov, A.P. Economics of Nuclear Fuel in Fast Power Reac-
tors (Report No. 2225)

Aleksandrov, A.P., V. and O.Ye. Stepanov,
Ye. N. Yudin, N.Ye. Ustinov, Ye.N. Yudin, and O.Ye. Stepanov.
Metal Neutron Densit 21 Distribution Along the Axis of
Assemblies of Rod-shaped Heat Producing Elements (Report
No. 2038)

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GLADKOV, G. A.; RYVNITCKIY, E. A.; NIKOLAEV, Y.. S.

"Guide providing nuclear safety of power reactor in the USSR."

report submitted for pri Int'l Conf, Peaceful Uses of Atomic Energy, Geneva,
31 Aug.-1 Sep. 1955.

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ERODER, Dmitriy Leonidovich, doktor fiz.-mat. nauk; POPKOV,
Konstantin Konstantinovich; KUBANOV, Stanislav
Mikhaylovich; GLADKOV, G.A., kand. fiz.-mat. nauk,
retsenzent; VESELKIN, A.F., kand. fiz.-mat. nauk,
retsenzent; YEGOROV, Yu.A., kand. fiz.-mat.nauk,
retsenzent; POLOGIKH, B.G., kand. fiz.-mat. nauk, re-
retsenzent; VLASOVA, Z.V., red.; CHISTYAKOVA, E.K.,
tekhn. red.

[Biological shielding for ship reactors] Biologicheskaiia
zashchita sudovykh reaktorov. Leningrad, Izd-vo "Sudo-
stroenie," 1964. 410 p. (VIR 17:4)

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GJPKW, G.G.; KUHNENKOW, B.S.

Vladimir V. Kremlev, Minister of Defense, USSR
(MVD USSR)

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GLADKOV, G. M.

Agriculture

Machine tractor stations seek a solution to the greatest problem in agriculture.
Kolkh. proizv. 12 k. l, i. .

Monthly List of Russian Publications, Library Congress, June 1958, Vol. 11, No. 6.

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CIA-RDP86-00513R0005

1. GLADKOV, G. M.
2. USSR (600)
4. Afforestation
7. Increasing the role of the machine-tractor station in shelterbelt forestry in every way. Les i step' 5, no. 1, 1953.
9. Monthly List of Russian Acquisitions. Library of Congress. May 1953. Wash.

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YEROPKIN, Vasiliy Gavrilovich; GLADKOV, Gleb Mikhaylovich; FORER,
Gans Lebrekhtovich; SEYDAKHMATOV, O., otv. red.; LEVITUS,
B.I., red. izd-va; ANOKHINA, N.G., tekhn. red.

[Wages on the collective farms of Kirghizistan]Oplata tru-
da v kolkhozakh Kirgizii. Frunze, Izd-vo Akad. nauk Kir-
gizskoi SSR, 1961. 214 p. (MIRA 15:9)
(Kirghizistan—Collective farms—Income distribution)

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ARABAYEV, E.I.; BABENKO, I.S.; GLADKOV, G.M.; KAZAKOV, I.G.;
SEYDAKIMATOV, O.S.; SHTYNNIK, V.K.; TABALAYEV, R.D.,
kand. ekon. nauk, stv. red.

[Wage system on the collective beet farms of Kirghizistan;
using the example of the "Krasnyi Oktiabr'" Collective
Farm of Sокулук District] Sistema oplaty truda v sverklo-
seuluchchikh kolkhozakh Kirgizii; na primere kolkhoza "Krasnyi
oktiabr'" Sokulukskogo raiona. Frunze, Izd-vo "Ilim," 1964.
(MIA 18:1)
92 p.

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CIA-RDP86-00513R000

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PHASE I BOOK EXPLOITATION

sov/1865

3(6)

Babenko, Yuriy Aleksandrovich, Grigoriy Stepanovich Gladkov, Grigoriy Afanas'yevich Klimenko, Vladimir Petrovich Naumchenko, and Aleksandr Ignat'yevich Khristich

Elektryfikatsiya Ukrayiny za roky Radyans'koy vlady (Electrification of the Ukraine During the Years of the Soviet Regime) Kyiv, Derzh. vyd.-vo tekhn. lit-ry URSR, 1958. 150 p. 3,000 copies printed.

Resp. Ed.: I.T. Shvetsya, Academician, UkrSSR Academy of Sciences; Ed.: M. Pysarenko; Tech. Ed.: Z. Vortman.

PURPOSE: The book is intended for the general reader.

COVERAGE: The authors discuss electrification of the national economy of the Ukraine during the prerevolutionary period and during the Soviet Five-Year Plans. Achievements of the Soviet regime are noted. No personalities are mentioned. There are no references.

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Electrification of the Ukraine During (Cont.)	470/1865
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"APPROVED FOR RELEASE: Tuesday, September 17, 2002

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CIA-RDP86-00513R0005

BABENKO, Yuriy Aleksandrovich; GLADKOV, Grigoriy Stepanovich; KLIMENKO,
Grigoriy Afanas'yevich; NAUMCHENKO, Vladimir Petrovich; KHRISTICH,
Aleksandr Ignat'yevich; PISARENKO, M., red.; GUSAROV, K., tekhn.
red.

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Одеса, Україна

Одеса, Україна
Південний мікрорайон
Софіївський парк
Будинок № 14
Відомий як "Домик в парку"
Відомий як "Домик в парку"
Відомий як "Домик в парку"

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(Municipal services)

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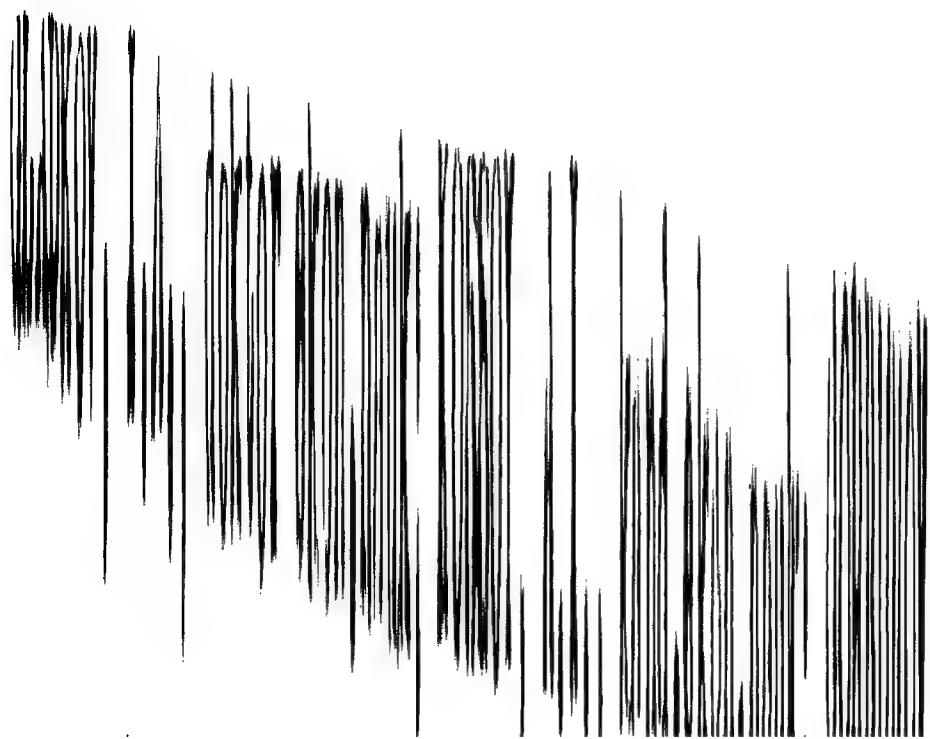
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the Mangyshlak Peninsula. Mat. po ist. fauny i flory Kazakh. 2:17-27
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(Mangyshlak Peninsula--Paleontology, Stratigraphic)

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Colimycin, an effective and cheap prevention. Veterinariia
38 no.9:68-69 S '61. (MIRA 1c:8)

1. Zaveduyushchiy Konstantinovskoy zoologicheskooy veterinarno-
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Gladkov, I.T. "Theory and estimate of gusher derrick operating at prime condition," Trudy Grozn. neft. in-ta, symposium 6, 1948, p. 25-63 - Bibliog: 26 items

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38 no.9:68-69 S '81. (MIRA let's)

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Zadachi i Uprazhneniya Po kursu Ekspluatatsiya Neftyanykh Mestorozhdeniy /Problems
and Exercises on a Course of Operation of Petroleum Deposits/ K. V. Orkin, P. K.
Kluchinskiy, I. T. Gladkov. Moskva, Nostoptekhizdat, 1952.

330 p. Diagrs., Tables.

"Literatura": p. B267-327.

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GLADKOV, I.T.

Analytical determination of dynamic bottom-hole pressures in
free-flowing wells. Azerb.neft.khoz. 35 no.6:16-18 Je '56,
(MLRA 9:10)

(Petroleum engineering) (Oil wells)

AUTHOR: Gladkov, K., Engineer

S/029/60/000/03/015/026
B008/B011

TITLE: The "Aeroship", a Flying Automobile

PERIODICAL: Tekhnika molodezhi, 1960, Nr 3, pp 14-15 (USSR)

TEXT: The author reports on various models of flying automobiles. The first such vehicle designed by the young Engineer Gennadiy Turkin, deceased, was demonstrated on May 16, 1954. A second and larger model was demonstrated by Turkin in the gym of the neftyanoy institut (Petroleum Institute) on May 25, 1955 before the teachers' staff and engineers. The third, largest model provided with a motorcycle engine was tested by Turkin in the open on September 19, 1955, when it glided 1 cm above the ground. The principle of this flying automobile is based on the production of a so-called air cushion underneath the vehicle. Projects in this direction are being worked out also in England, the USA, Switzerland, and Canada. The author reports on some of these models. Studies in this field, however, are still in the development stage. Furthermore, the question arises, as to where such a vehicle could be used more suitably, over land or over water. Designer Andreyevich Smolin from the Gor'kovskiy avtozavod (Gor'kiv Automobile Factory) is also working on the design of a flying automobile. His idea of such a vehicle differs from that of the other designers, since he wants to combine an overland car with a helicopter. His second idea is a car shown on the outside front cover, which is kept at any height by air columns. Such air columns are

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Roll call of hypotheses. Tekh.mol. 29 no.3:32-36 '61.
(MIRA 14:3)

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GLADKOV, K., inzh.

From heat to current, a direct route. Tekh.mol. 29 no.4:22-23 Ap
'61. (Thermoelectricity) (MIRA 14:5)

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GLADKOV, K., inzh.

Gas and liquid amplifiers. Tsvih.mol. 28 no.11:25 '60.
(MIRA 13:12)
(Pneumatic control)

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GLADKOV, K., inzh.

Tektites are still a mystery. Tekh.mol. 29 no.8:39-40 '61.
(VIRA 14:11)

(Tektite)

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GLADKOV, Kirill Aleksandrovich, laureat Gosudarstvennoy premii;
MEL'NIKOVA, Zh.M., red.; RAKITIN, I.I., tekhn. red.

[New mission for the electron] Novoe prizvanie elektronika.
Moskva, Izd-vo "Znanie," 1963. 30 p. (Novoe v
zhizni, nauke, tekhnike. IV Seriya: Tekhnika, no.23)
(MIRA 17:2)

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23T99

GLADKOV, K. A.

USSR/Radio Navigation
Radar - Development

Jun 1947

"Modern Radio Navigation," K. A. Gladkov, 1 P

"Radio" Vol XI, No 6

The new Five-Year Plan has as one of its aims increasing freight and passenger air mileage by some 175,000 kilometers. In connection with this great development of navigation aids is required. Author mentions radar frequently, and speaks of the future when planes will be landed solely by radar control from the ground.

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GIADKOV, K. A.

Dal novidenie, Television. Moskva, Gos. izdvo tekhnich.-teoret. lit-ry, 1950.
63 p. illus. (Nauchno-podliarnais biblioteka).

DLC: TK663C.957

SO: Soviet Transportation and Communications, A Bibliography, Library of Congress,
Reference Department, Washington, 1952, Unclassified.

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GLADKOV, K.A.

[Television] Dal'nevidenie. Izd.3. Moskva, izd-vo tekhniko-teoreticheskoy lit-ry, 1952. 63 p. (Nauchno-populiarnaya biblioteka, no.23)
(MLRA 7:4)

(Television)

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GLADKOV, K., inzhener.

Daytime motion picture. Tekh.molod.21 no.9:17-18 S '53. (MLRA 6:11)
(Motion picture projection)

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CIA-RDP86-00513R0005

GLADKOV, K.

[Television] Televidenie. Moskva, Gos. izd-vo detskoi lit-ry
Ministerstva prosvetshcheniya RSFSR, 1954. 254 p. (MIRA 7:7)
(Television)

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CIA-RDP86-00513R0005

GLADKOV, K., inshener.

Nuclear reactors. Tekh.mol. 22 no.5:23-29 My '54. (MLRA 7:6)
(Nuclear reactors)

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CIA-RDP86-00513R0005

GIAIKOV, K., inzhener.

The radio telescope. Tekh.mol. 22 no.12:17 D '54. (ML3A 8:1)
(Radio astronomy)

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CIA-RDP86-00513R0005

GLADKOV, K., inzhener, laureat Stalinskoy premii

"Radioactivity." K.B.Zaborenko, Reviewed by K.Gladkov. Vest.
Vozd.Fl. 37 no.5:73-75 My '54. (MLRA 8:8)
(Zaboren Ko, K.B.) (Radioactivity)

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GLADKOV, K., inzhener, laureat Stalinskoy premii.

In the world of temperature and pressure. Tekh.mol.23 no.3:11-13
Mr.'55. (MIRA 8:4)
(Temperature) (Pressure (Physics))

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CIA-RDP86-00513R0005

GLADKOV, K. laureat Stalinskoy premii, inzhener

In the world of temperature and pressure. Tekh. mol. 23 no.4:
6-11 Ap '55. (MIRA 8:6)
(Temperature) (Pressure (Physics))

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GLADKOV, K., inzhener, laureat Stalinskoy premii

Rainbow on the screen. Tekh.mol.23 no.7:5-8 J1'55. (MLRA 8:10)
(Color television)

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GLADEKOV, K., inzhener.

The antiproton has left the first trace on a photoplate. Tekh.mel.
24 no.4:2-5 Ap '56. (MIRA 9:7)
(Particles, Elementary)

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CIA-RDP86-00513R0005

GLADKOV, K.

Atoms without nuclei, atoms without electrons. Tekh. mol. 25 no.3:
9-11 Mr '57.

(MIRA 10t6)

(Nuclei, Atomic)

(Atoms)

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CIA-RDP86-00513R000

APPROVED FOR RELEASE: Tuesday, September 17, 2002

CIA-RDP86-00513R0005

GLADKOV, K.

Photographs of atoms. Tekh. mol. 25 no.9:8-9 S '57.
(Atoms) (MLRA 10:9)

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GLADKOV,
GLADKOV, K., inzh.

"Solar" radio receivers. Tekh. mol. 25 no.11:11 N '57. (MLRA 10:11)
(Radio--Receivers and reception) (Transistors)

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GUROV, Vadim Sergeyevich; GLAIKOV, K., inzh., laureat Stalinskoy premii,
red.; STOLYAROV, N., red.; LIL'IM, A., tekhn. red.

[Semiconductors in technology and everyday life] Poluprovodniki v
tekhnike i v bytu. [Moskva] Mosk. rabochii, 1958. 141 p.
(Semiconductors) (MIRA 11:9)

PHASE I BOOK EXPLOITATION

581

Gladkov, Kirill Aleksandrovich

Energiya atoma (Energy of the Atom) Moscow, Detgiz, 1958. 397 p.
(Shkol'naya biblioteka) 115,000 copies printed.

Resp. Ed.: Leybenshteyn, G. V., and Smagin, B. I.; Tech. Eds.: Tishina, Z. V.,
Suchkova, N. V., and Molokanova, N. A.

PURPOSE: This book is a manual for use in secondary schools.

COVERAGE: This school text book is a popular presentation of nuclear-
and radiochemistry, nuclear physics, and nuclear technology.
The application of atomic energy in various fields is discussed.
Chapter 16 describes the use of new "future nuclear propulsion"
sources in all means of transportation, including the ionic rocket.
The book is profusely illustrated with simplified schematic drawings
as visual aids for the juvenile reader. A list of recommended
literature is given at the end of the book. It contains 14
Soviet titles.

Card 1/3

AUTHOR: Gladkov, K., En. iner 20-3-20/25

TITLE: The Mystery of Ball-Lightning (Zagadka sharovoy melnii)

PERIODICAL: Tekhnika Molodetschi, 1958, Vol. 26, Nr 3, pi. 28-30 (USSR)

ABSTRACT: There are phenomena which in spite of great progress achieved in science, are still "white spots". Mankind, since its existence, continuously got in touch with one of these phenomena, viz. with ball-lightning. Since 200 years men have endeavored to disclose this phenomenon, yet it remained a mystery up till now. The occurrence of ball-lightning was frequently described in literature. Its principal properties were explicitly demonstrated by the famous French astronomer K. Flammarion. The ball-lightning has the form of a bright meteor, often with a brighter core. Its color varies from light blue to bright white, golden with a violet edge and only seldom red. Its diameter is mostly 10 to 20 cm, more rarely 10 m and more. Its flight is accompanied by a whistling, growling or hissing sound. An intense sprouting of sparks is sometimes observed. The ball moves rather quickly - up to 2 m/sec. and remains in existence for the period of fractions of a second up to several minutes, subsequently it explodes with a violent

Card 1/3

The Mystery of Ball-Lightning

29-3-20/25

detonation and is capable of causing great damage. The behavior of the ball-lightning towards dielectrics is strange: it appears that it avoids them. Small objects are upset or displaced by it. The ball-lightning is obviously borne by the air current. Cases were observed, however, in which it moved against the air current. peculiarities of the ball-lightning make most of the scientists doubt whether ball-lightning may be considered a lightning at all. Yet various theories on its nature were enunciated during the 1st decades. Yet all these theories agree only in one point, viz. that the phenomenon denoted as ball-lightning, occurs in consequence of an electric discharge of immense intensity. Further the opinions of scientists diverge. Laboratory tests based upon various theories were carried out for reducing a sort of ball-lightning. The results of these tests were small spherical formations resembling according to their exterior shape a miniature edition of the ball-lightning. Yet these tests were not able to disclose the mystery of this mysterious phenomenon. Further the author enunciates his own hypothesis. Concluding, he states, however, that all hypotheses, up to that date, could be neither confirmed by concrete experiments, nor by exhaustive observations. The great success achieved in the field of modern

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The Mystery of Ball-Lightning

29-3-20/25

experimental nuclear physics and the creation of new gigantic plants let us suppose that the centuries-old mystery of ball-lightning will be solved in the near future.

6 eye-witness reports are published.
There are 3 figures.

AVAILABLE: Library of Congress

1. Ball-lightning - Theory
2. Lightning - Theory

Card 3/3

6(7)

SOV/29-59-6-12/24

AUTHOR: Gladkov, K.

TITLE: Compressed Sound (Pressovannyy zvuk)

PERIODICAL: Tekhnika molodezhi, 1959, Nr 6, pp 22 - 24, 26 (USSR)

ABSTRACT: In this article, the author reports on a new term, compressed sound. In the development of telecommunication, always new ways are searched to establish numerous undisturbed connections simultaneously over long distances. By the use of special high-quality cables, the so-called concentric cables, and still more complicated tubular conductors or radio relays, it is possible to make several thousand long-distance telephone calls and to transmit several television programs at the same time. The introduction of such systems is rendered difficult by the fact that they are very complicated and expensive. On the basis of electronic engineering it was possible to build speaking automatons. The first, "Vodoker", was demonstrated at the International World Exhibition in New York in 1939. By means of such machines, the processes of human language can be investigated, the changes of individual language components pursued, and experimental results reproduced in accurate ✓

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Compressed Sound

physical quantities. The technology of telephone communications is already so much advanced that all electric disturbances in the line can be avoided. No wide frequency range is therefore necessary for an undisturbed transmission of the spoken word. It would be ideal to transmit the human voice in a pure form according to its meaning only. To understand such information it is not necessary to express it by a complicated musical scheme and modulations. Scientists were faced with the task of decomposing this information into simple short signals. This is difficult as the spoken words must be recorded according to their musical sound. The apparatus of the line of communication may, however, change the sound electrically. Besides, a device should be designed which transmits one single simplified signal and reconstructs every other detail at the reception. This would take the main load off the line of communication, and entrust it to transmitting and receiving apparatuses. Such compressed signal is, however, unintelligible for the human ear, and should be recorded by a speaking automaton. The electric device of this automaton reconstructs the signal in its original form, and either reproduces it in sounds, or retransmits it to a typewriter, or even to a translating machine. On the colored

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Compressed Sound

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insert, the draftsman has tried to show the working of a radio-telephone communication based on the principle of the speaking automaton "Vodoker". In spite of the primitiveness and imperfection of the first apparatus, it was able to reconstruct the signals of the transmitted speech in a well intelligible way. In fact, the natural character and modulations of the spoken word were missing. The modern speaking machines containing 100 and more sound filters can reproduce the signals compressed by 5-10 times in a much more natural and accurate way. Although it is still very difficult to build a perfect machine, it became evident that the spoken word can be transmitted by means of most simple signals. This means that a much smaller frequency range is required for transmission. The spoken word could be compressed even more if also the intervals between sentences, words and sounds were utilized. There are 5 figures. ✓

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